

WHAT IS CLAIMED IS

1. A method for producing recombinant protein using plant pollen
5 comprising the steps of:
isolating pollen from plant;
culturing the pollen in a pollen growth medium;
introducing a target gene into *Agrobacterium* vector to be transformed;
infecting the transformed *Agrobacterium* into the cultured plant pollen;
10 and
growing the pollen with the gene in a pollen growth medium to obtain the
resulting recombinant protein.
2. The method of production as set forth in claim 1, wherein the plant pollen
15 is isolated from *Lilium longiflorum* or *Pinaceae*.
3. The method of production as set forth in claim 1, wherein the pollen
growth medium is composed of 5~10% sucrose, 0.5~3 mM $\text{Ca}(\text{NO}_3)_2$,
50~300 μM H_2BO_3 , 0.001~5 mM KNO_3 and 0.1~10 mM KH_2PO_4 .
20
4. The method of production as set forth in claim 1, wherein the gene is
introduced into *Agrobacterium* by a method selected from the group
consisting of particle bombardment, vacuum infiltration and
electroporation.
- 25 5. The method of production as set forth in claim 1, wherein the target gene

is UreB gene from *Helicobacter pylori* and tissue plasminogen activator (tPA) from humans.